

WHAT IS CLAIMED IS:

1. A wireless communication system comprising:  
a transmission path arranged in an indoor space to  
function as an antenna;

5 a wireless terminal unit arranged in the indoor  
space; and

a wireless base station unit making wireless  
communication with the wireless terminal unit through  
the transmission path,

10 wherein the wireless communication between the  
wireless terminal unit and the wireless base station  
unit is made in orthogonal frequency division  
multiplex modulation.

2. The wireless communication system according to  
15 claim 1, wherein the transmission path is composed of  
a leaky transmission path.

3. The wireless communication system according  
to claim 2, wherein the leaky transmission path is  
arranged to meander or arranged zigzag or spirally as  
20 a single transmission path in the indoor space, one end  
of the leaky transmission path is connected to the  
wireless base station unit, and the other end thereof  
is connected to a terminal load.

4. The wireless communication system according to  
25 claim 1, wherein the transmission path is composed of  
an antenna array cable.

5. The wireless communication system according

to claim 4, wherein the antenna array cable comprises a single high frequency transmission path, a plurality of high frequency couplers and antennas provided in a middle of the high frequency transmission path, the antenna array cable is arranged to meander or arranged zigzag or spirally in the indoor space, and one end of the antenna array cable is connected to the wireless base station unit.

6. The wireless communication system according to claim 1, wherein the transmission path is composed of a plurality of transmission paths arranged in parallel to be spaced from each other with a predetermined interval in the indoor space, one end of each of the plurality of transmission paths is connected to a power distributor-synthesizer, and the power distributor-synthesizer is connected to the wireless base station unit.

7. The wireless communication system according to claim 1, wherein the transmission path is arranged such that when a plurality of incoming waves are received by the wireless terminal unit, a time difference of the plurality of incoming waves occupying a main power, of the plurality of incoming waves, is in a guard section of the orthogonal frequency division multiplex modulation scheme.

8. The wireless communication system according to claim 1, wherein the transmission path is arranged to

cross front and rear parts of a plurality of showcases  
arranged in a room.